

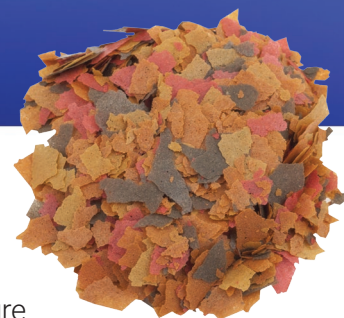


# Aquafeed Analyzer

EQUIPMENT SERIES



- Aquafeed and Feed Ingredients
- Moisture, Protein, Fat, Fiber, Starch, Ash and Other Parameters in Under 30 Seconds
- Ready to go Pre-Calibrated with Ingot® Calibrations from Aunir™



## Process and Quality Control

Fast, accurate analysis is critical for aquafeed manufacturers to optimize their process and insure quality. Optimizing the process will save the plant time and money and provide very rapid payback. Near Infrared (NIR) analysis is a proven technique designed to provide fast, accurate, and reliable results for the feed and feed ingredients industry.

## BENEFITS:

- Rapid payback
- At-line ready
- Simple to use
- Flexible sample handling
- Easy data integration
- Low maintenance
- ISO 12099 Compliant
- Guaranteed calibrations

Raw material testing to guide proper formulation, to control feed quality, and to optimize least cost formulation

Monitoring and controlling mixers and optimizing the moisture in extruders and dryers

Verifying production batch values, optimizing moisture levels, and documenting finished feed label claims



**SpectraStar™**

The Unity Aquafeed Analyzer is based on the SpectraStar XL, a state of the art stand-alone NIR analyzer optimized for the analysis of ground and unground natural products. The SpectraStar XL is calibrated to NIST traceable reference standard materials and utilizes TRUE NIR™ components for outstanding performance and reliability, providing high uptime, complete confidence and quick payback to the operators.

The Unity Scientific SpectraStar™ RTW (Rotating Top Window) system gives the ultimate in sampling flexibility and allows the customer to make measurements of all finished feed and feed ingredients.

## Plug and Go Calibrations

The Unity Aquafeed Analyzer is powered by the Ingot® calibration package from Aunir™. This package includes a full suite of calibrations for fresh and salt water aquafeeds, marine meals and other ingredients. Constituents include protein, oil, fiber, ash and starch.

All Ingot calibrations are backed by Aunir's 30 years of experience and are guaranteed to be accurate. Calibration experts are on call to specifically tailor the calibrations to our customer's needs.

POWERED by **INGOT®**  
Driven by UCal™

# Aquafeed Analyzer

## Ready to Use

The Unity Aquafeed Analyzer is robust enough to be used both at-line or in the lab. The system features a long life lamp and no air filter or fan, providing for very low cost of ownership. The built in computer is fully networkable and LIMS compatible, allowing for plant management to immediately access results. The Aquafeed Analyzer is a valuable tool to control every step in the feed manufacturing process, from raw ingredients to finished feed.

### The Aquafeed Analyzer package includes the following:

- SpectraStar 2500 XL (1100 nm - 2500 nm) with built in 17" touch screen, prediction software, multi-cup adapter, US-RTIR-0016 adapter ring, Unity check cell, Unity R99 standard
- 2 Large cup US-LGOP-0001 for analysis of feed and feed ingredients
- Full Ingot® Calibration package for aquafeeds and ingredients
- One year calibration support and guarantee from Aunir™



## HOW TO ORDER

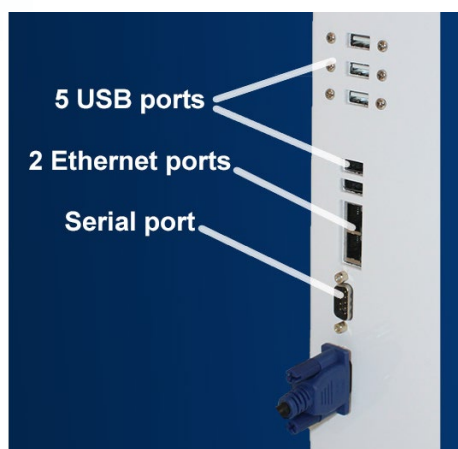
The Aquafeed Analyzer package includes everything you need to start analyzing finished feeds and ingredients right out of the box.

### AQUAFEED ANALYZER

US-2500-AFD1  
SpectraStar 2500 XL  
(1100 nm – 2500 nm)

### AQUAFEED ANALYZER XLR

US-2500-AFD2  
SpectraStar 2500 XL-R  
(680 nm – 2500 nm)



## Specifications Table (Full Specifications in SpectraStar XL Brochure)

Technology	Pre-dispersive scanning monochromator with nominal bandwidth of 10 nm (FWHM)
Wavelength Range	1100 - 2500 nm; 680 - 2500 nm XLR optional
Light Source	Tungsten halogen lamp with MTBF rating of 10,000 hours (User changeable)
Detector	Custom dual cooled, extended InGaAs detectors (2)
Analysis Time	10 - 30 seconds
Data Interval	1.0 nm
Photometric Noise	< 0.02 mAu 1100 - 2500 nm

## User Interface

Built-in Computer	Windows® 7 Professional, Solid State HDD, 17" high resolution touch screen monitor
Software	InfoStar™ prediction and data management package
Network Capabilities	OPC Compliant; LIMS Compatible; 5 USB ports, 2 Ethernet (RJ45)

## Dimensions and Power Requirements

Size	330 x 381 x 508 mm (with display) 330 x 381 x 270 mm (without display)
Weight	18 kg, 40 lbs.; 22 kg, 48 lbs. with monitor
Voltage	100-240 V AC *, frequency 50-60 Hz, Class 1, protective earth

### Unity Scientific

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